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$$E = R^{-6} / (R^{-6} + R_0^{-6})$$

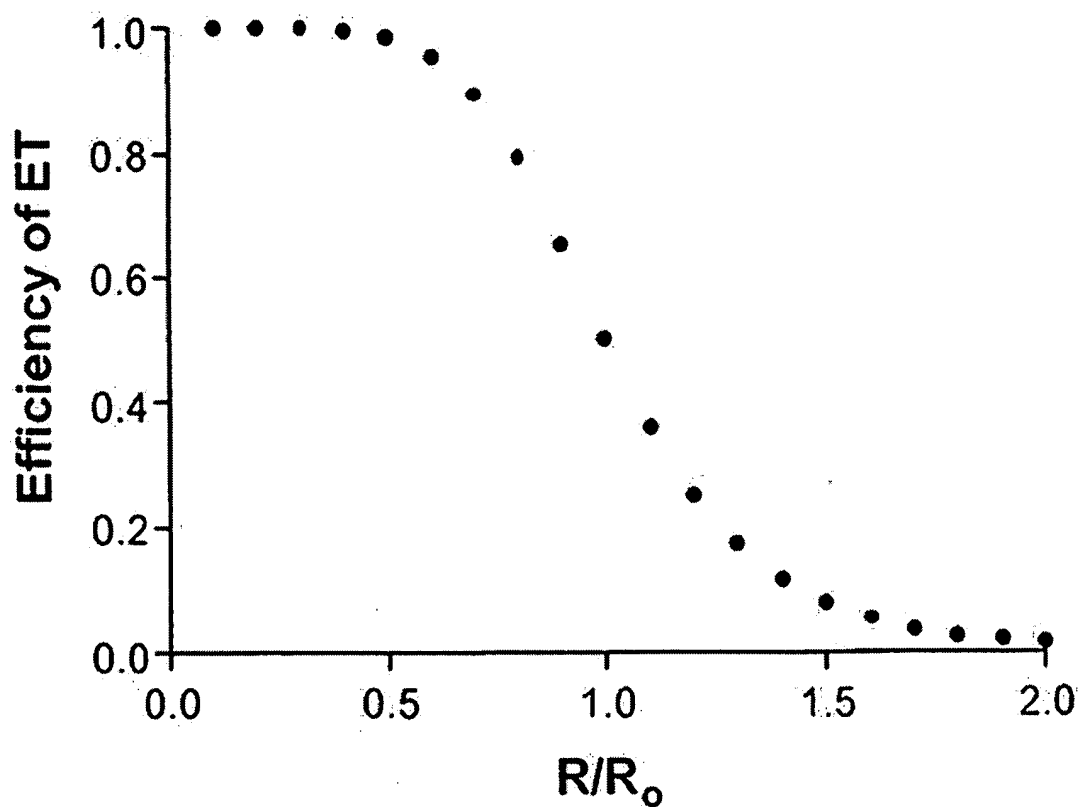


FIG. 1

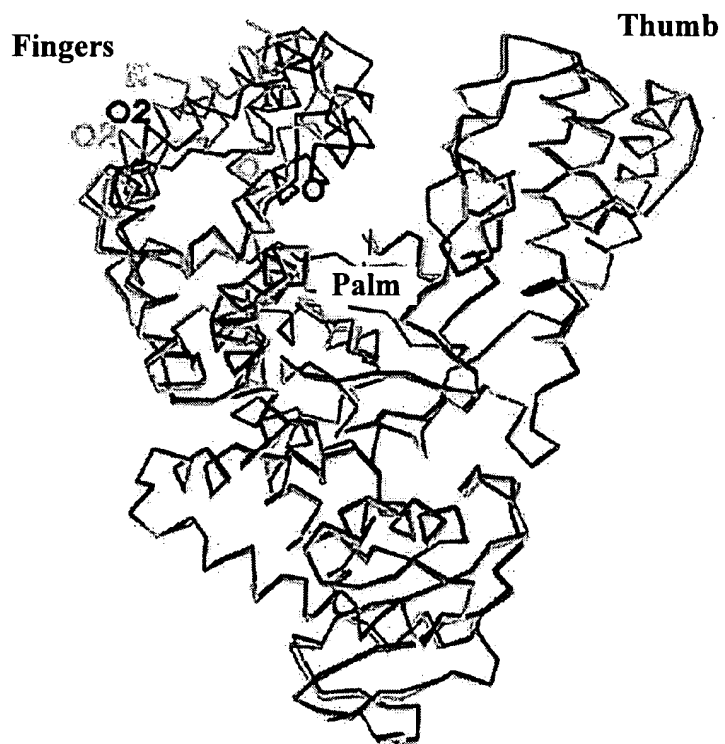
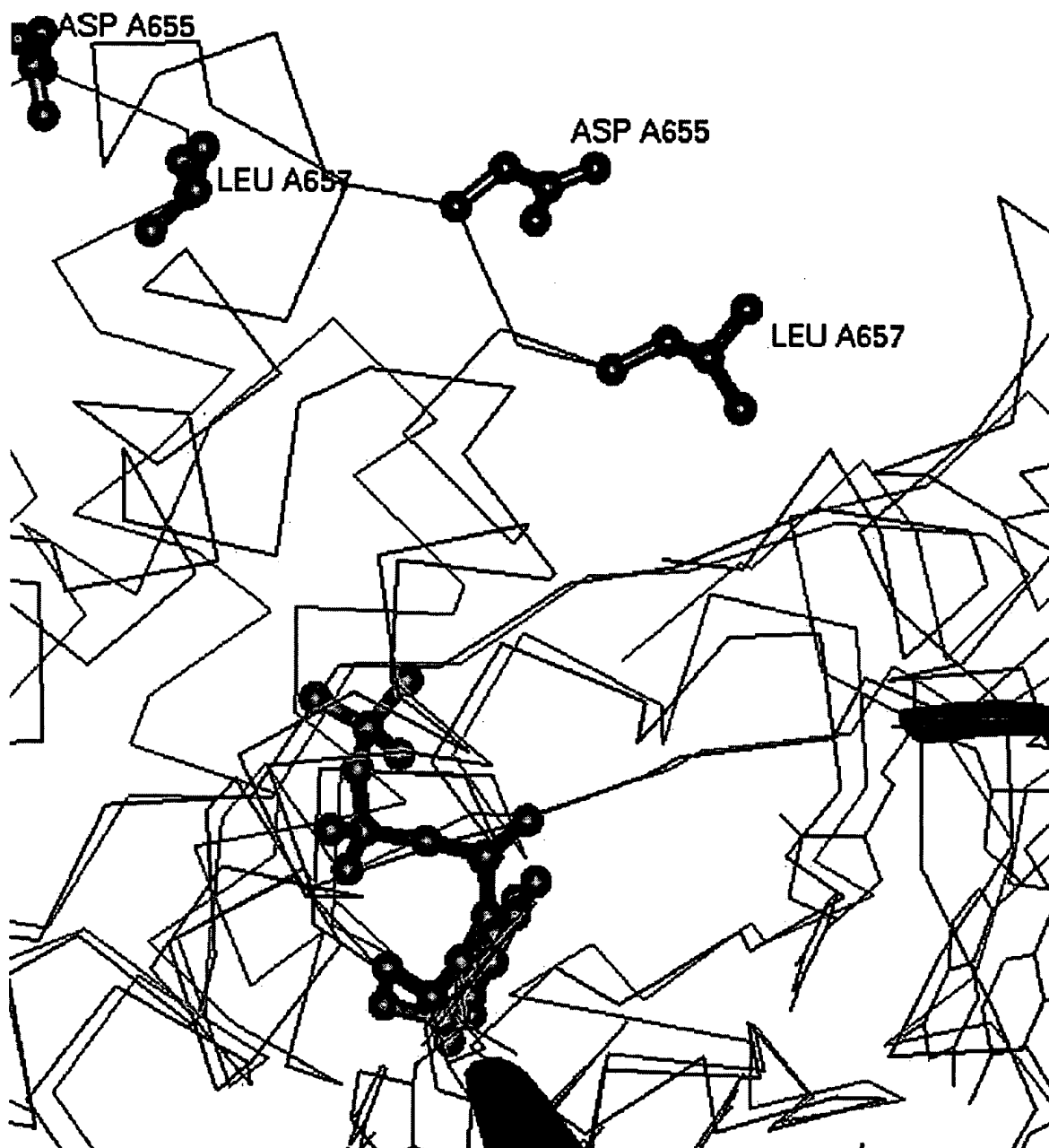


FIG. 2



FIG. 3A

**FIG. 3B**

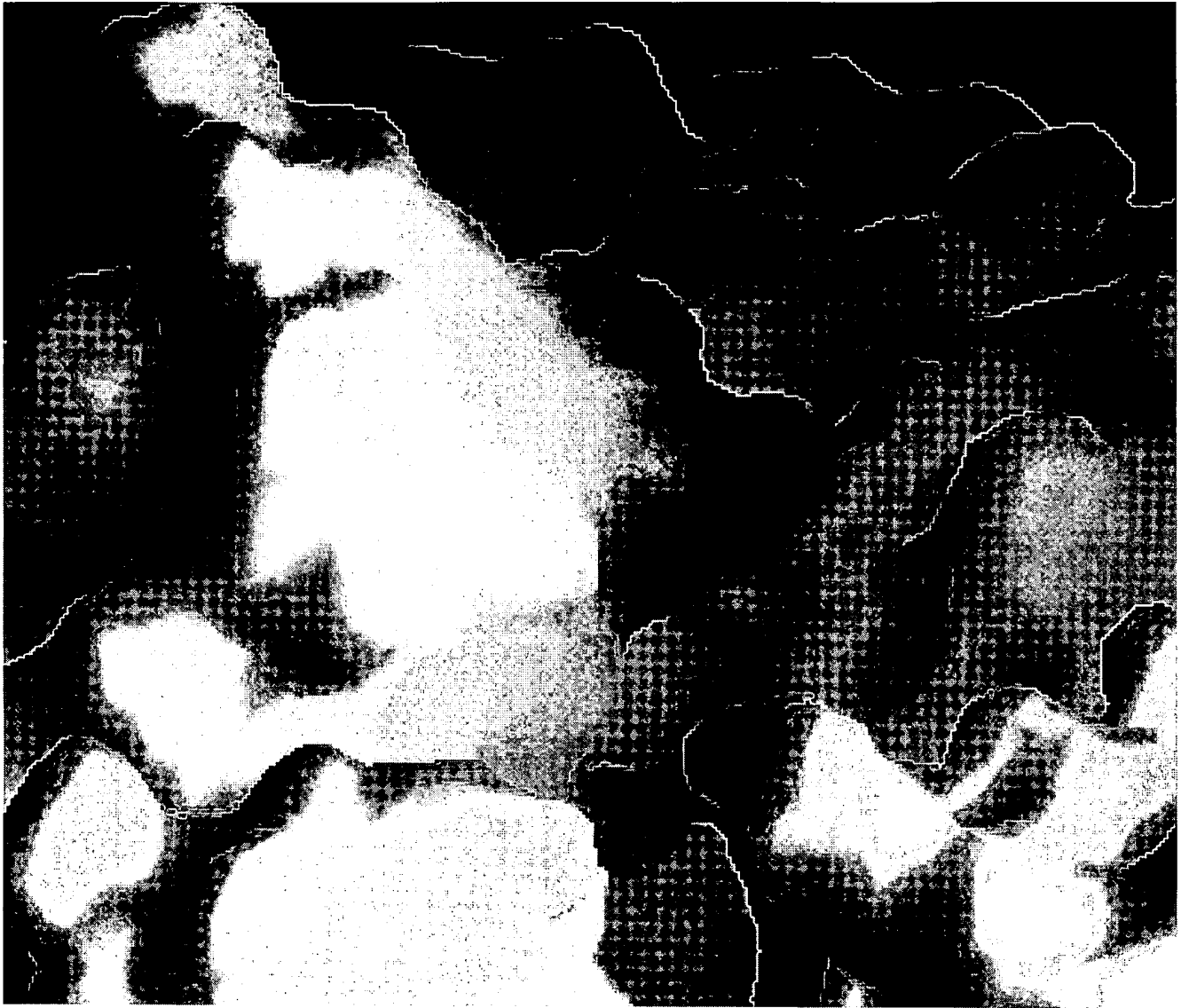


FIG. 3C

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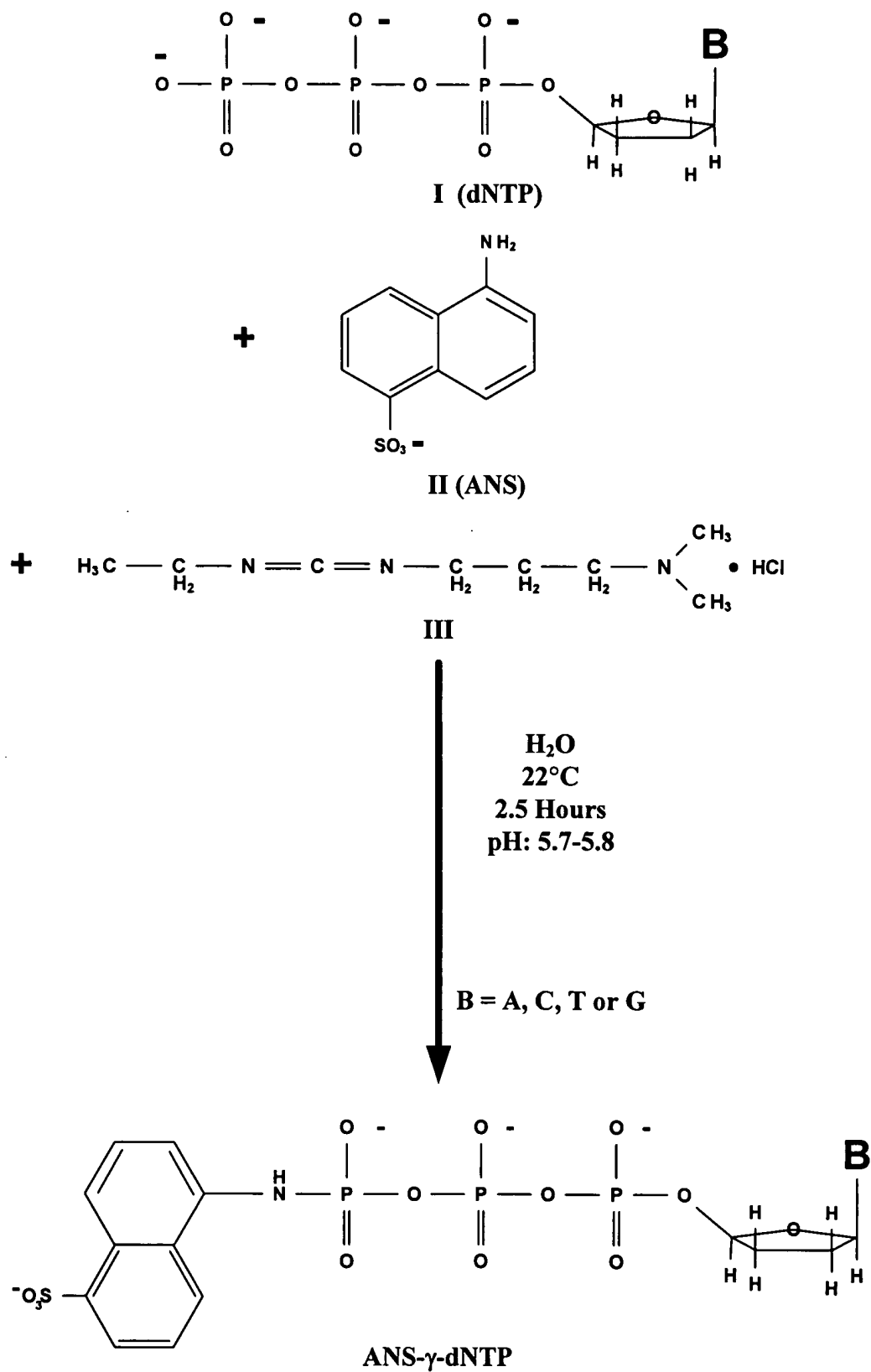


FIG. 4

Primer Strand:

TOP 5' GGT ACT AAG CGG CCG CAT G 3'

Template Strands:

BOT- T 3' CCA TGA TTC GCC GGC GTA CTC 5'

BOT- C 3' CCA TGA TTC GCC GGC GTA CCC 5'

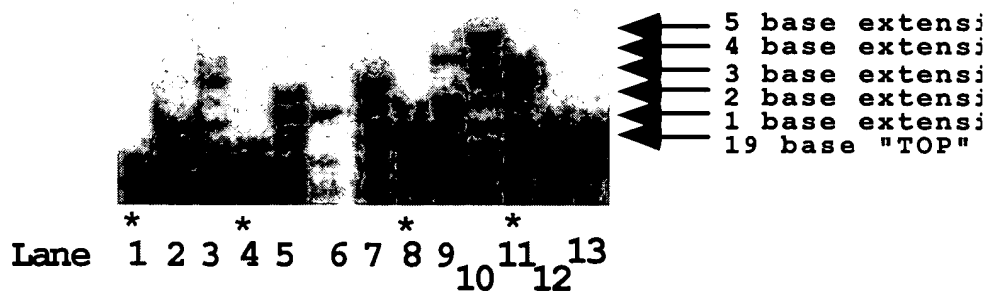
BOT- G 3' CCA TGA TTC GCC GGC GTA CGC 5'

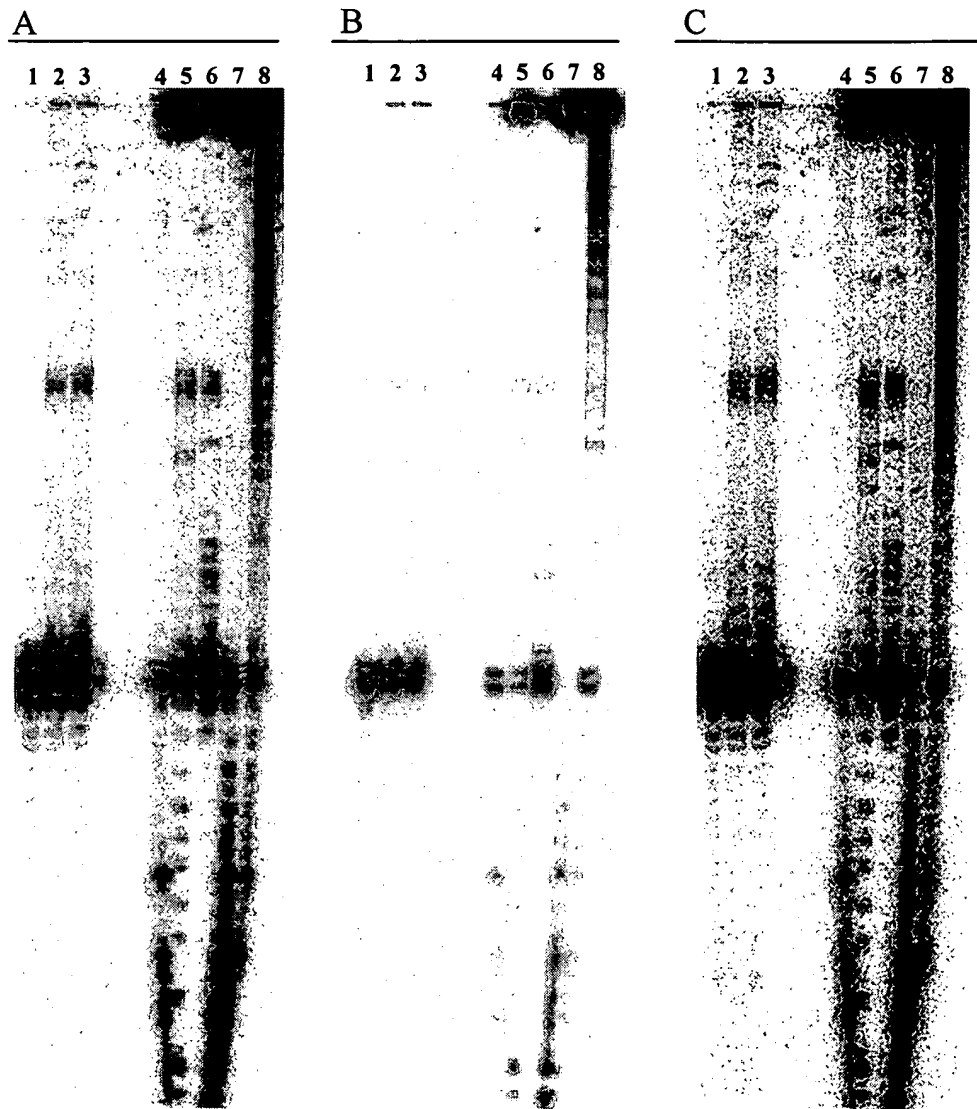
BOT- A 3' CCA TGA TTC GCC GGC GTA CAC 5'

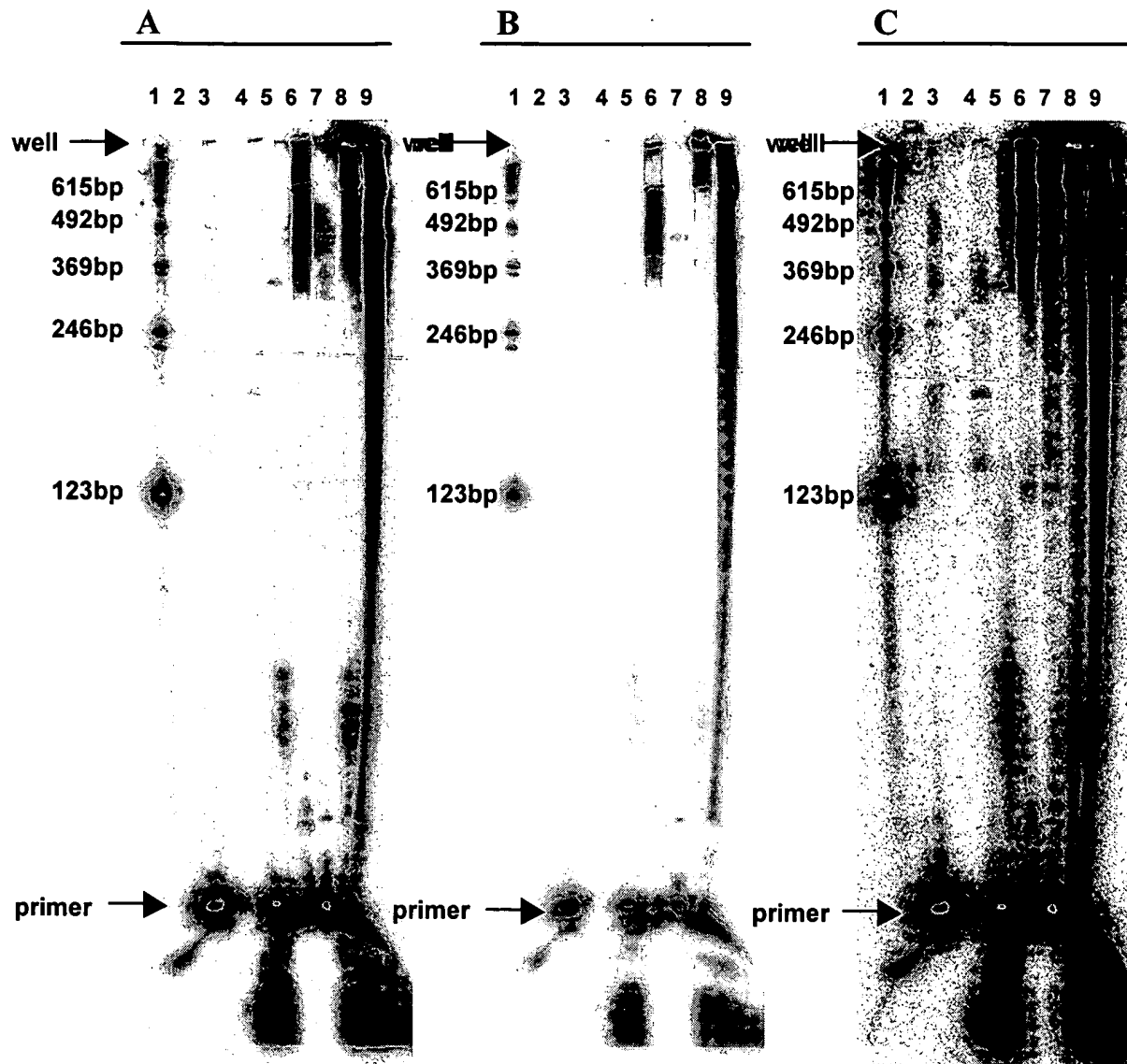
BOT- 3T 3' CCA TGA TTC GCC GGC GTA CTT TC 5'

BOT- Sau 3' CCA TGA TTC GCC GGC GTA CCT AG 5'

Incorporate: GATC AG AAAG
(5' to 3')

**FIG. 5**

**FIG. 6**

**FIG. 7**

		<u>Klenow</u>									<u>Taq</u>	
Enzyme	-	+	+	+	+	+	+	+	+	+	+	+
Primer (TOP)	+	+	+	+	+	+	+	+	+	+	+	+
Template	-	<u>BOT- 3T</u>			<u>BOT - T</u>			<u>BOT - Sau</u>			<u>BOT- 3T</u>	
Nucleotide	-	dG	dA	γ dA	dG	dA	γ dA	dG	dA	γ dA	dA	γ dA

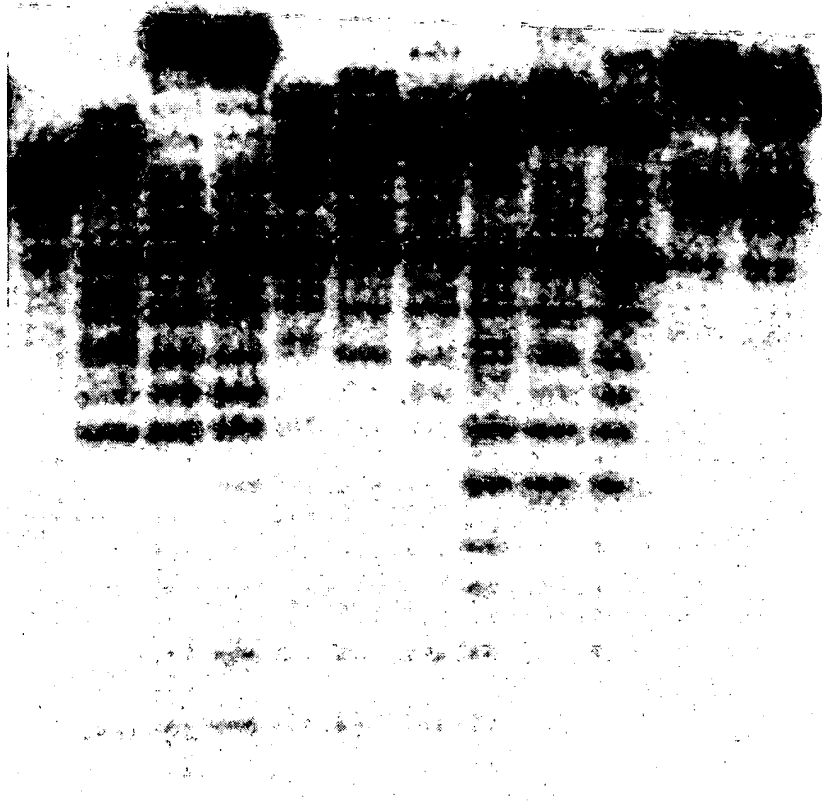


FIG. 8

Pfu Primer Extension Assays

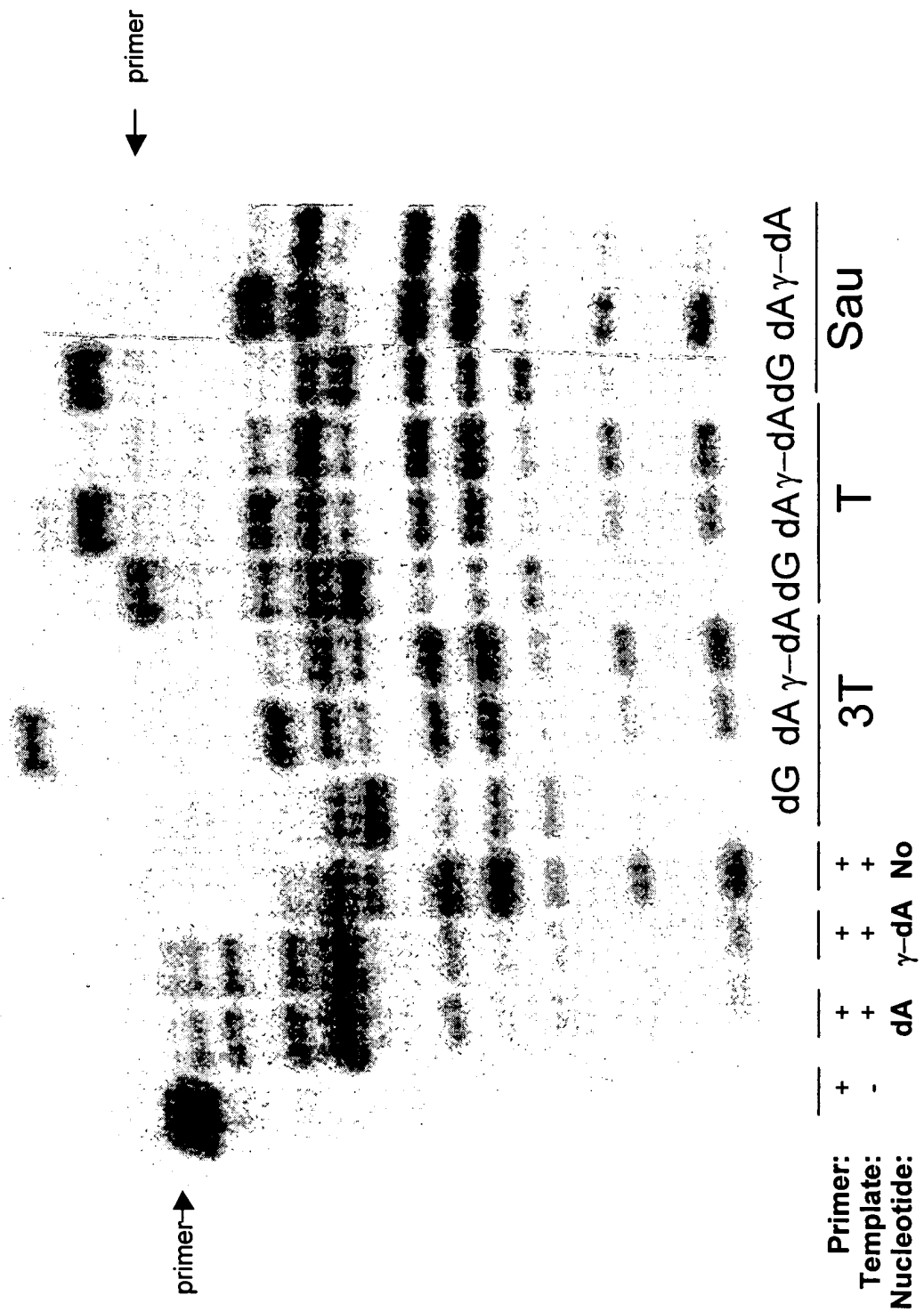


FIG. 9

- **Primer Strand:**
 Top 5' GGT ACT AAG CGG CCG CAT G 3'
- **Template Strands:**
 3T 3' CCA TGA TTC GCC GGC GTA CTT TC 5'
 Sau 3' CCA TGA TTC GCC GGC GTA CCT AG 5'

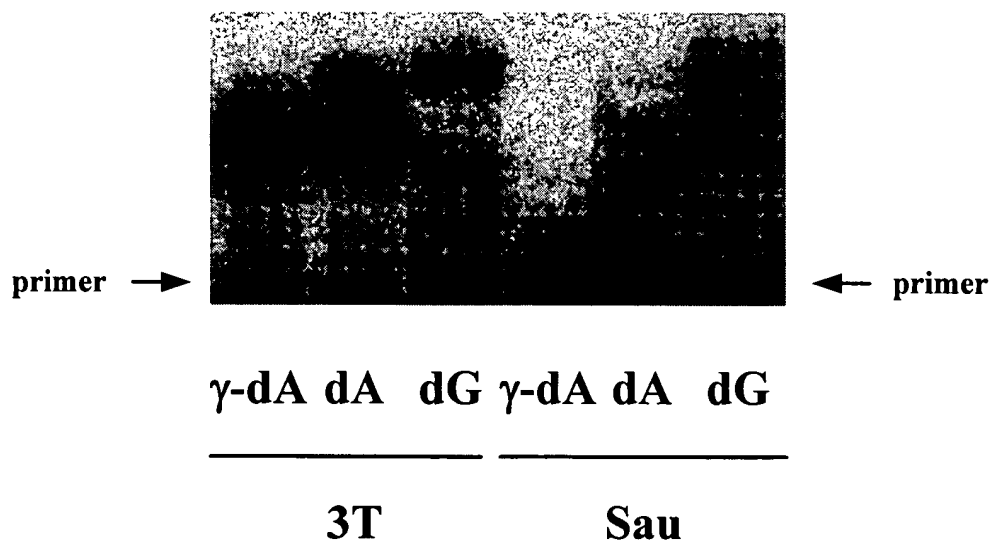


FIG. 10

• Primer Strand:											
Top	5'	GGT	ACT	AAG	CGG	CCG	CAT	G			3'
• Template Strands:											
BOT -3T	3'	CCA	TGA	TTC	GCC	GGC	GTA	CTT	TC		5'
BOT - Sau	3'	CCA	TGA	TTC	GCC	GGC	GTA	CCT	AG		5'

Enzyme:	None	T7	T7	Seq	Seq	T7					Sequenase					Taq	
Primer:	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Template:	-	+	-	+		BOT-3T			Sau		BOT-3T			Sau		BOT-3T	
Nucleotide:	-	dA	γ -dA	dA	γ -dA	dG	dA (spill)	γ -dA	dG	dA	γ -dA	dG	dA	γ -dA	dG	dA	γ -dA

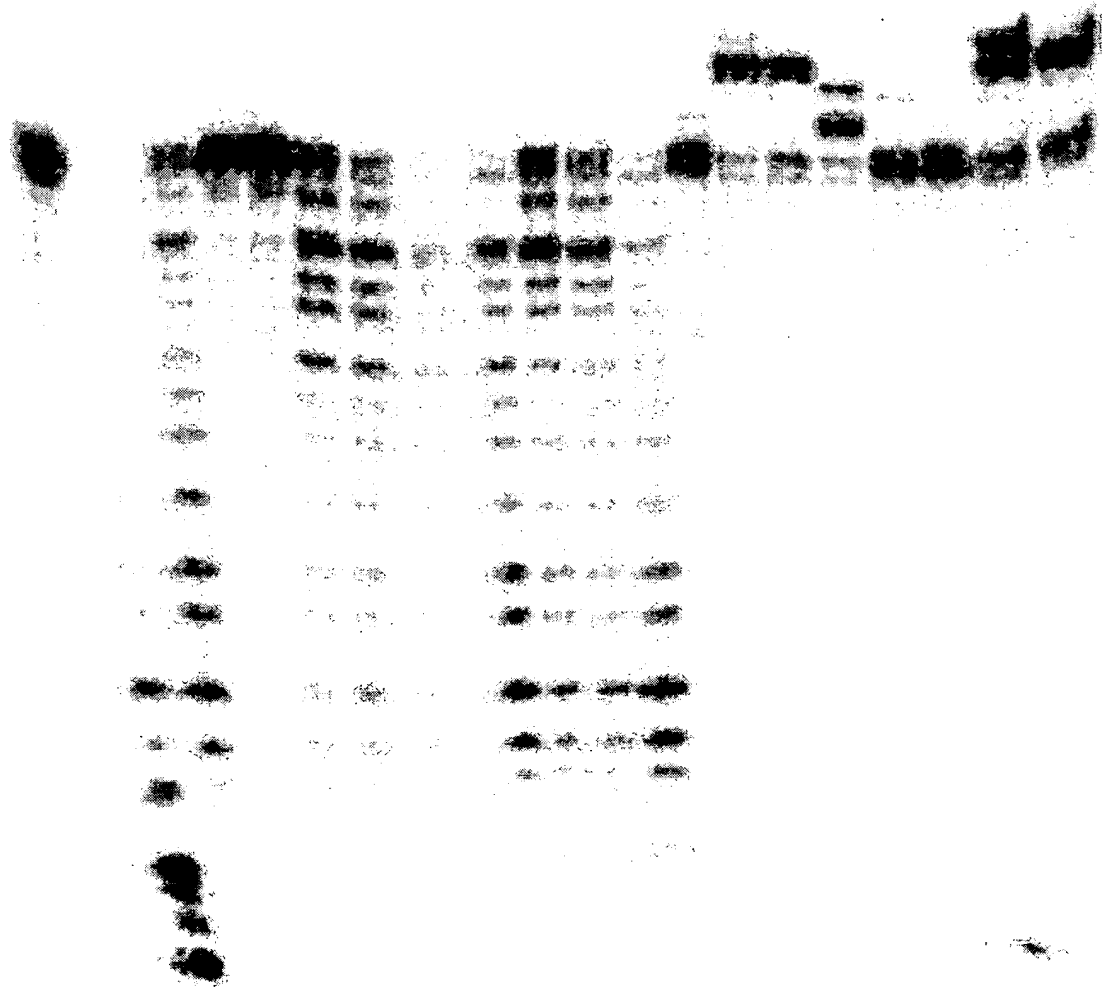
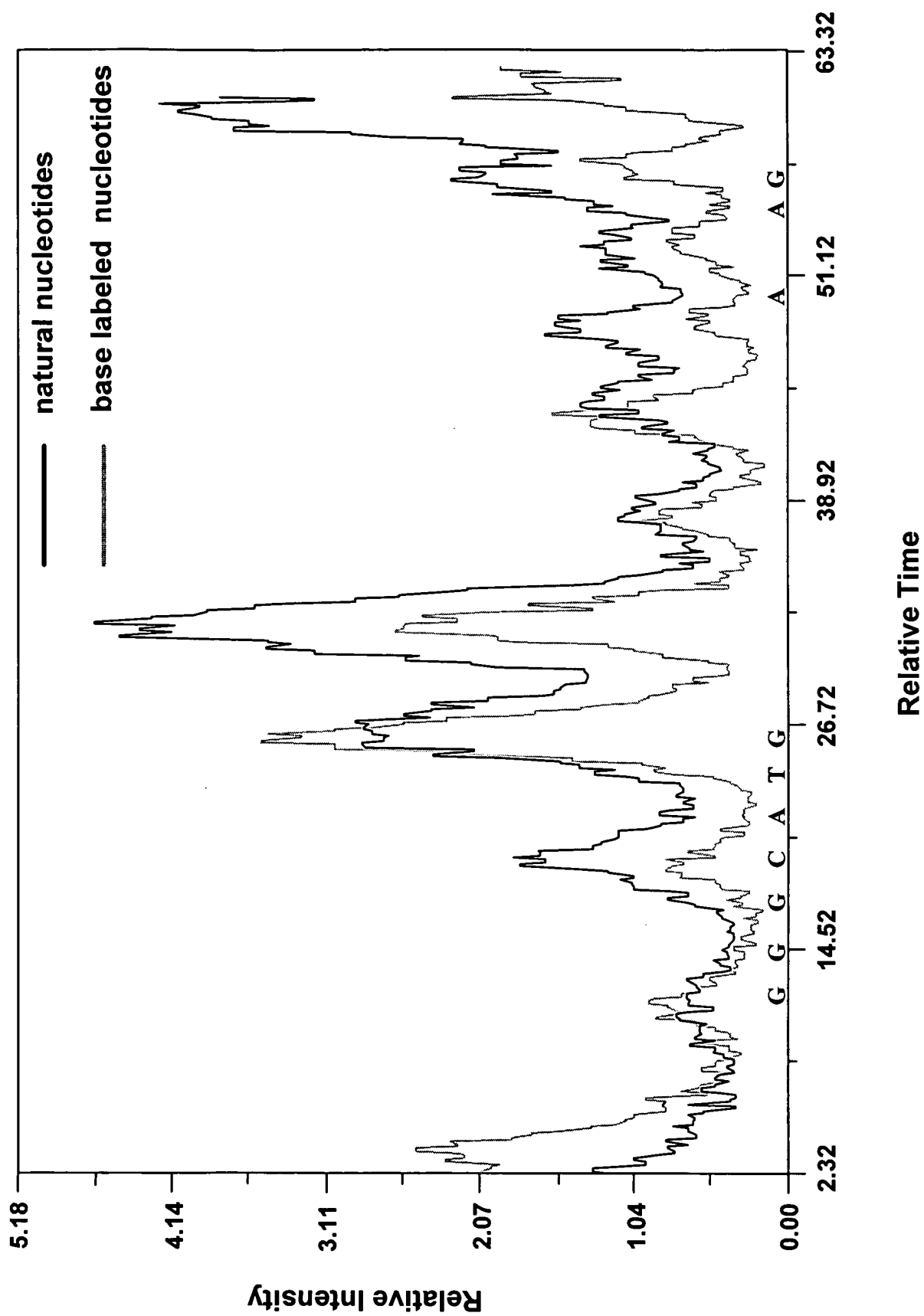


FIG. 11

**FIG. 12**